



*Precision Compounding for
The Medical Device Industry*



Overview

- ▶ Company History
- ▶ Quality Statement
- ▶ Products and Services
 - Polymers & Fillers
 - Capabilities
 - Analytical
- ▶ Customer Service



Company History

- ▶ **Founded to Service the Medical Device Industry**
 - 1999-LLC Formed
 - 2000-Production Online
 - 3 employees
 - 2004-Plant Expansion
 - 2008-ISO 9001-2000 Certified
 - Plans for Second Expansion Begun
 - Land Purchased
 - 2009- Expansion plans for Spring 2010
 - Director of Quality hired
 - 2010 – Ground breaking for new construction
 - We are 34 employees strong and growing!



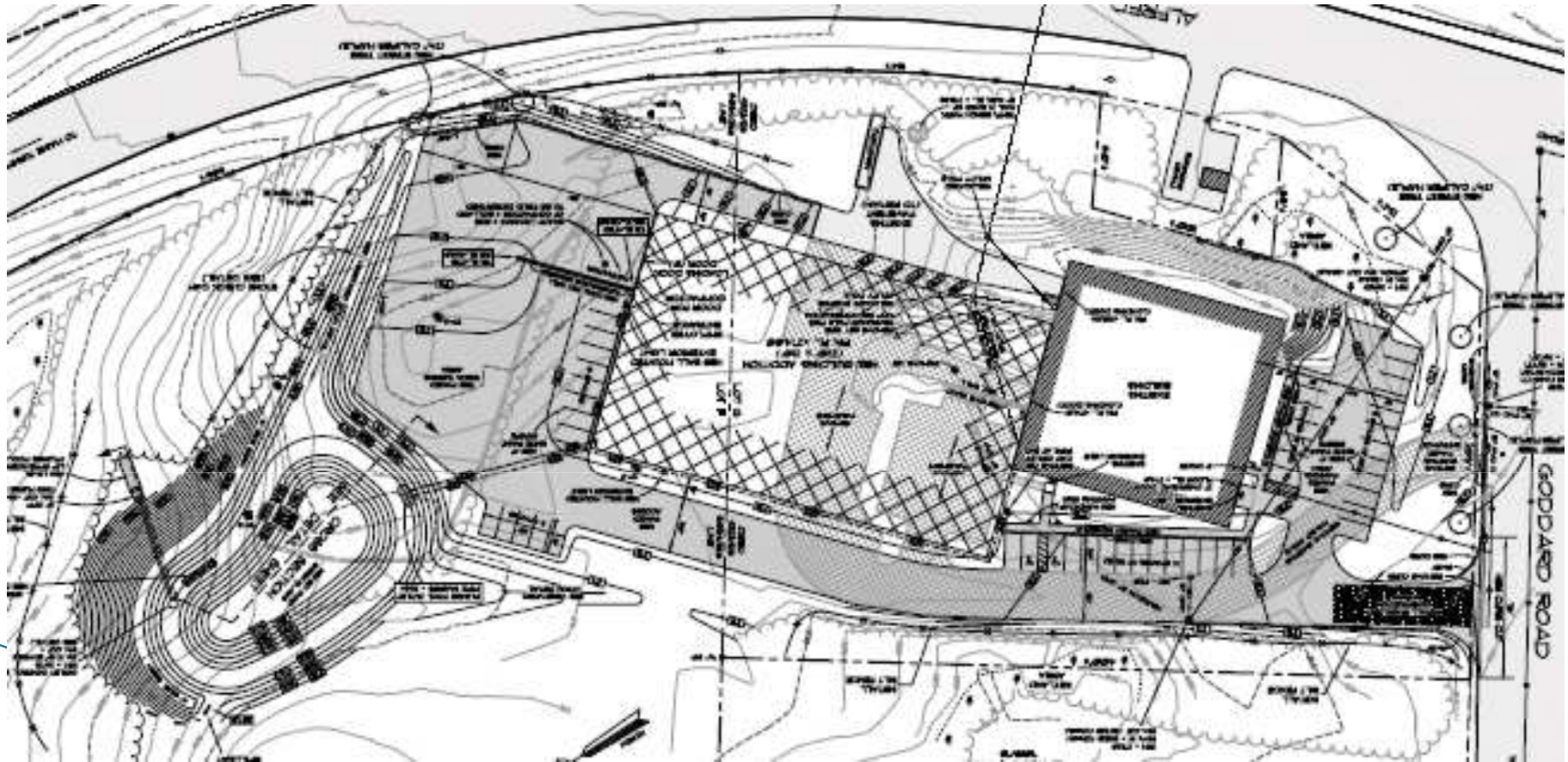
Current Facility



Compounding Solutions LLC
258 Goddard Rd
Lewiston, ME 04240
207-777-1122 (ph)
207-777-1566 (fax)
www.compoundingsolutions.net



Future Facility



- Addition of a 30,000 sq ft facility
- White room for extrusion
 - New material handling room
 - Designated Incoming, Outgoing, and QC hold space.



Quality Statement

- ▶ *Compounding Solutions is committed to manufacturing specialty plastic compounds and concentrates of the highest quality. Our compounds and concentrates will satisfy the strict requirements of the Medical Device Industry. This will be accomplished by the adherence to our Quality Management System that will focus on continued improvement in three critical areas:*

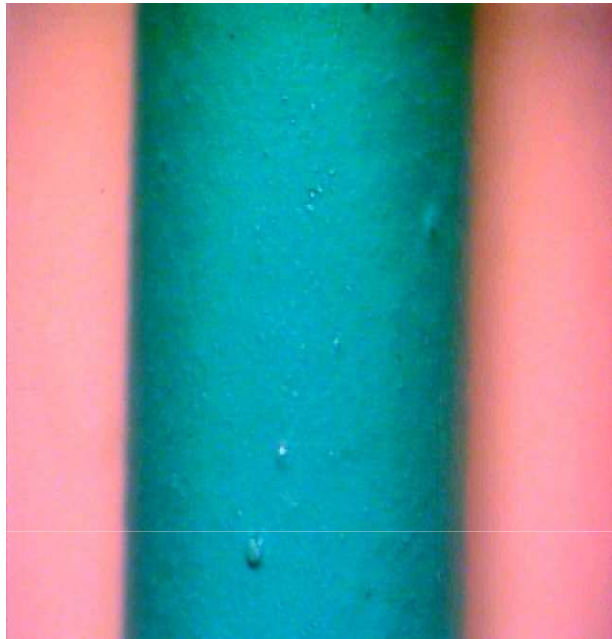
Customer Service

Technology

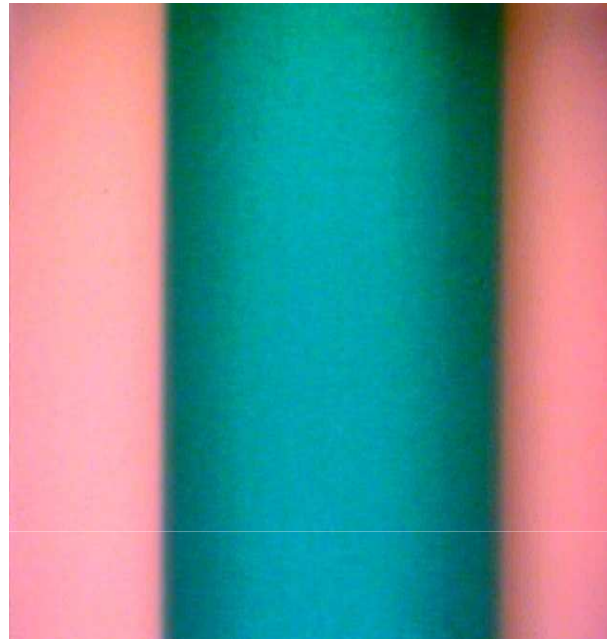
Workforce



Product Case Study of a 0.0015" Wall Tubing



Before Process Improvements



After Process Improvements

Formula

- 48.5% PEBAX 5533 SA01
- 50% Bismuth Subcarbonate
- 1.5% Phthalocyanine Green Pigment

Results

- The OEM switched to our new compound and saw an increase in yield from 25% to over 95%.



Product & Services

- ▶ Specialty Custom Formulations
- ▶ Compounds Utilizing Radiopacifiers
- ▶ Masterbatch Color Concentrates
- ▶ Specialty Additives
- ▶ Specification Management
- ▶ Compound Analysis
- ▶ Research & Development



Polymers & Fillers

- ▶ Polyolefins: LDPE, HDPE, PP
- ▶ Acrylics, Acetals
- ▶ Thermoplastic Elastomers
- ▶ Thermoplastic PolyUrethanes
- ▶ Engineered Thermoplastics: PC, PET, PBT, alloys
- ▶ ABS, SAN, HIPS, PPO
- ▶ Fluoropolymers
- ▶ Polyamides, PEBA
- ▶ High Temp. Thermoplastics: PEI, PSU, PEEK
- ▶ Radiopaque: Bismuth, Barium, Tungsten
- ▶ Lubricants
- ▶ UV Stability
- ▶ Minerals: Talc, Calcium Carbonate
- ▶ Fiber Reinforcement: Glass, Carbon
- ▶ Nano-filler: Clay, Carbon Tubes
- ▶ Metals
- ▶ Anti-static
- ▶ Anti-microbials
- ▶ Anti-thrombiatic
- ▶ Gamma Stable
- ▶ Conductive



Capabilities

Compounding Equipment

- ▶ Co-rotating Twin Screw Extruders
 - Four 27 mm
 - One 50 mm
 - One 40 mm
- ▶ ***NEW*** Co-rotating Twin Screw Extruder
 - 50 mm

Auxillary Equipment

- ▶ PLC driven control systems
- ▶ Nitrogen charged feeder system
- ▶ Loss in weight feeders w/side stuffing capability
- ▶ Micro feeders
- ▶ Liquid pump feeder
- ▶ Dust collector (2)
- ▶ Both strand and underwater Pelletization
- ▶ Drying
 - Forced hot air desiccant bed driers
 - Oven driers
 - Vacuum oven driers



Analytical Services

- ▶ 1500 sq. ft dedicated space
- ▶ 7 full time lab personnel
- ▶ 27mm lab extruder
- ▶ Capillary rheometer
- ▶ Impact Testing
 - Notched, Un-notched, and Reverse Notch
- ▶ Moisture Analysis
- ▶ Microscopy
- ▶ 2-28 Ton Injection Molders
 - ASTM specimen molds
 - Color chip mold
- ▶ Vacuum ovens
- ▶ Dispersion analysis
 - Smear test
- ▶ Formulation analysis
- ▶ Formulation management
- ▶ Process management
- ▶ Spectrophotometer
- ▶ Melt Flow Index
- ▶ Ash test
- ▶ Roll Mill
- ▶ Tabor abrasion
- ▶ Mechanical Property Testing
 - Tensile, Flex, Tear, and Slip Resistance



Ease of Doing Business

- ▶ Quality, consistency, accountability, responsibility
- ▶ State of the art technology
- ▶ Solution focused approach to customer need
- ▶ Real partnership with customers
- ▶ Typical turn-around of 2 – 3 weeks.
- ▶ Fast response to critical issues
- ▶ Competitive Pricing!
- ▶ Superior Customer Service!



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